

## Safety Data Sheet Page 1 of 5

In conformity with EG directives 2001/58/EG

Revision Date: 15.01.09

Trade name: SilOil M80.100.03

### 1. Identification of the substance/preparation and of the company/undertaking:

Product details

Usage: Wide band heat transfer oil  
Up Silikonoilbasis

Supplier: Peter HUBER Kältemaschinenbau GmbH  
Werner-von-Siemens-Str. 1  
D-77656 Offenburg / Germany  
Tel.: +49 (0)781/9603-0 Fax: +49 (0)781/57211

### 2. Composition / information on constituent elements

Polydimethylsiloxanes and polyphenylmethylsiloxanes

### 3. Hazards codes NFPA

Health = 1  
Flammability = 1  
Reactivity = 0

### 4. First aid action

If the product comes into contact with the eyes, rinse with plenty of water.  
If the product comes into contact with the skin, remove it by mechanical means.  
After swallowing the product, consult a doctor.

### 5. Fire-fighting action

Extinguishing agents: CO<sub>2</sub>, foam, water spray jet, extinguishing powder

### 6. Action if product is released unintentionally

Soak up using absorbent material such as sawdust or sand

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USt-IdNr.: DE 811286033

Geschäftsführer: Peter Huber, Daniel Huber, Joe Huber

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### 7. Handling and storage:

The HTF circuits must be closed and superimposed with nitrogen or carbon dioxide. Keep sources of ignition away.  
VCI storage class: 3B

### 8. Explosion limitation and personal protective equipment

Eye protection: safety goggles  
Conform to the usual requirements when handling chemicals.

### 9. Physical and chemical characteristics:

Form:	liquid
Colour:	colourless
Odour:	odourless
Initial boiling point (IBP):	> 275°C at 1013 mbar
Solidification temperature:	< -96°C
Viscosity, at 0°C:	7,5 cSt
Viscosity, at -80°C:	130 cSt
Density:	0.92 g/cm <sup>3</sup> at 20°C
Vapour pressure:	0.013 Pa at 0°C 1.33 Pa at 50°C
Solubility in water:	Insoluble
pH value:	neutral at 20°C
Flashpoint:	> 121°C
Burnpoint:	> 162°C
Ignitepoint:	> 420°C
Volume expansion:	12% / 100°C
Explosion limits:	Limits not determined
Upper limit of use:	250°C

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### 10. Stability and reactivity

<b>Thermal decomposition:</b>	no decomposition if used according to the intended purpose. Cleavage products are generated in the event of local overheating during use, and these may reduce the flashpoint.
<b>Hazardous products of decomposition:</b>	No hazardous products of decomposition if stored correctly.
<b>Hazardous reaction:</b>	Low molecular products of decomposition may form if the material is heated in open vessels; these products may explode on ignition.
<b>Further information:</b>	In the presence of air, at temperatures from approx. 150°C upwards, formaldehyde may be formed in small amounts due to oxidative decomposition.

### 11. Toxicological information

Polydimethylsiloxanes are physiologically harmless according to knowledge at present; however, contact with the eyes can cause clouded vision which is not dangerous and is reversible in a short period; this is due to the formation of a film of oil on the eyeball.

### 12. Ecological information

Polydimethylsiloxanes are degradable to a certain extent due to abiotic processes; no bioaccumulation is known. Water danger class (WGK): 1 – slightly dangerous to water.

### 13. Notes on disposal

Can be incinerated in a suitable plant, in compliance with the local conditions imposed by the authorities.

### 14. Transport information

CAS-No.:	9016-00-6
GGVSee/IMDG code:	–
PG:	–
GGVE/GGVS:	Kl. No
ADNR:	Kl. 9
Post office dispatch Germany (gem. GGVE):	yes
To 500 ml per interior luggage	
5000 ml per parcel	

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Declaration country:	Polydimethylsiloxane
Declaration lake:	–
Declaration air:	–
ICAO/IATA DGR:	not register
UN No.:	no
MPO:	–
RID/ADR:	Kl. no
MFAG:	–

### Further data:

This product is not a danger property in accordance with the at present valid national and international danger property goods.

### Other data:

From food keep separated. Weakly smelling  
Protect against wetness.

Working reliability regulations: with water mixable

Water endangerment class: WGK1 weakly

Water-endangering in accordance with appendix 3 VwVwS

## 15. Regulations

No marking after dangerous material regulation and appropriate EG guidelines 1999/45/EG necessarily. No dangerous material or preparation in the sense of the dangerous material regulation and/or the EEC guideline 67/548/EWG or 88/379/379/EWG

Danger class after: A III: Fp > 55°C to 100°C

### REACH registration CCHA European chemicals Agency

CAS NUMBER: 9016-00-6, Name: Polydimethylsiloxane

Tender NUMBER: KG731423-48 Pre registration NUMBERS: 05-2118800421

### Specifications in the USA

All components of this product are led in the EPA TSCA Chemical Substance Inventory. The accurate composition is TS (trade secret).

### Supplier information:

This product does not contain toxic chemicals, which are subject to the obligation to register of section 313 of the Emergency Planning and Community right ton Know act (EPCRA) of 1986 and 40 CFR part of 372.

California pro position 65: This product does not contain chemicals, which can cause California cancer or reproductive toxicity after knowledge of the Federal State.

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## 16. Further information

For use in accordance with the intended purpose, we refer to the technical description of the HTF-250 Heat Transfer Medium. The above information is based on company brochures, specialised literature and our own observations.

The information is based on the present status of knowledge and experience. The safety data sheet describes products with respect to the safety requirements. The information does not constitute a warranty of characteristics.

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